

03-29-01

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PTO/SB/05 (08-00)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**UTILITY PATENT APPLICATION TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. IN-0012-1First Named Inventor or Application Identifier Shalon et al.Title Capillary Printing Systems

EL071088646US

Express Mail Label No. EL071088646USJC996 U.S. PTO  
09/819162

03/27/01

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, D. C. 20231

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. X \*Fee Transmittal Form  
(Submit an original, and a duplicate for fee processing)
2.      Applicant claims small entity status (see 37 CFR 1.27)
3. X Specification (Total Pages 17)  
(preferred arrangement set forth below)
  - Descriptive Title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claims
  - Abstract of the Disclosure
4. X Drawings(s) (35 USC 113) (Total Sheets 9)
5. X Oath or Declaration (Total Pages 2)
  - a.      Newly Executed (Original or Copy)
  - b. X Copy from a Prior Application (37 CFR 1.63(d))  
(for Continuation/Divisional with Box 17 completed)
  - i.      DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6.      Application Data Sheet. See 37 CFR 1.76
7.      CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8.      Nucleotide and/or Amino Acid Sequence Submission

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(if applicable, all necessary)

- a. ☐ Computer Readable Form (CRF)  
b. ☐ Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or ii. ☐ paper  
c. ☐ Statement verifying identity of above copies  
d. ☐ Request to use CRF from another application

#### ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & documents(s))  
10. ☐ 37 CFR 3.73(b) Statement (where there is an assignee)  
☐ Power of Attorney  
11. ☐ English Translation Document (if applicable)  
12. ☒ a. Information Disclosure Statement (IDS)/PTO-1449  
☐ b. Copies of IDS Citations  
13. ☒ Preliminary Amendment (Transmittal)  
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)  
16. ☐ Other: \_\_\_\_\_

#### 17. Priority

This application claims priority to prior application No: 09/150,502

Prior application information: Examiner Ludlow, J. Group Art Unit 1743

The entire disclosure of the prior application, from which an oath or declaration is supplied under 5b, is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

#### 18. Correspondence Address

☒ Customer Number or Bar Code Label



**23379**  
(Insert Customer No. or Attach Bar Code Label here)

or

PATENT TRADEMARK OFFICE

☒ Correspondence Address Below

NAME Richard Aron Osman

SCIENCE & TECHNOLOGY LAW GROUP

ADDRESS 75 Denise Drive

CITY Hillsborough STATE California ZIP CODE 94010

Country U.S.A. TELEPHONE (650) 343-4341 FAX (650) 343-4342

Name: Richard Aron Osman Registration No: 36,627

Signature: \_\_\_\_\_

Date: March 27, 2001

**FEE TRANSMITTAL FOR FY 2001**

Fees are subject to annual revision

**TOTAL AMOUNT OF PAYMENT (\$)** \$948.00**Complete if Known:**Application No. Not yet assignedFiling Date HerewithFirst Named Inventor Shalon et al.Group Art Unit 1743Examiner Name Ludlow, J.Attorney Docket No. IN-0012-1**METHOD OF PAYMENT (check one)**1. ☒ **The Commissioner is hereby authorized to charge indicated fees to:**☒ **Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 and credit any over payments to:**☐ **Applicant claims small entity status. See 37 CFR 1.27**Deposit Account Number 19-0750Deposit Account Name Science & Technology Law Group2. ☒ **Payment Enclosed**☒ **Check**☐ **Money Order**☐ **Other****FEE CALCULATION****1. BASIC FILING FEE**

| <u>Large Entity</u> |                 | <u>Small Entity</u> |                 | <u>Fee Description</u>             | <u>Fee Paid</u>             |
|---------------------|-----------------|---------------------|-----------------|------------------------------------|-----------------------------|
| <u>Fee Code</u>     | <u>Fee (\$)</u> | <u>Fee Code</u>     | <u>Fee (\$)</u> |                                    |                             |
| 101                 | 710             | 201                 | 355             | Utility application filing fee     | <u>710.</u>                 |
| 106                 | 320             | 206                 | 160             | Design application filing fee      | <u>          </u>           |
| 107                 | 490             | 207                 | 245             | Plant filing fee                   | <u>          </u>           |
| 108                 | 710             | 208                 | 355             | Reissue filing fee                 | <u>          </u>           |
| 114                 | 150             | 214                 | 75              | Provisional application filing fee | <u>          </u>           |
| <b>SUBTOTAL (1)</b> |                 |                     |                 |                                    | <b>\$ <u>          </u></b> |

**2. CLAIMS**

|                                  |           | <u>Extra</u>  |           | <u>Fee from below</u> |                   | <u>Fee Paid</u>        |
|----------------------------------|-----------|---------------|-----------|-----------------------|-------------------|------------------------|
| <b>Total Claims</b>              | <u>31</u> | <b>- 20 =</b> | <u>11</u> | <b>X</b>              | <u>18.</u>        | <b>= <u>198.00</u></b> |
| <b>Independent Claims</b>        | <u>2</u>  | <b>- 3 =</b>  | <u>0</u>  | <b>X</b>              | <u>          </u> | <b>= <u>0</u></b>      |
| <b>Multiple Dependent Claims</b> |           |               | <u>0</u>  | <b>X</b>              | <u>          </u> | <b>= <u>0</u></b>      |

| <u>Large Entity</u> |                 | <u>Small Entity</u> |                 | <u>Fee Description</u>                                  | <u>Fee Paid</u>         |
|---------------------|-----------------|---------------------|-----------------|---|-------------------------|
| <u>Fee Code</u>     | <u>Fee (\$)</u> | <u>Fee Code</u>     | <u>Fee (\$)</u> |   |                         |
| 103                 | 18              | 203                 | 9               | Claims in excess of twenty                              | <u>198.00</u>           |
| 102                 | 80              | 202                 | 40              | Independent claims in excess of 3                       | <u>          </u>       |
| 104                 | 270             | 204                 | 135             | Multiple dependent claim                                | <u>          </u>       |
| 109                 | 80              | 209                 | 40              | Reissue independent claims over original patent         | <u>          </u>       |
| 110                 | 18              | 210                 | 9               | Reissue claims in excess of 20 and over original patent | <u>          </u>       |
| <b>SUBTOTAL (2)</b> |                 |                     |                 |   | <b>\$ <u>198.00</u></b> |

# **FEE CALCULATION (continued)**

## **3. ADDITIONAL FEES**

| <u>Large Entity</u>       |                 | <u>Small Entity</u> |                 | <u>Fee Description</u>   | <u>Fee Paid</u> |
|---------------------------|-----------------|---------------------|-----------------|--|-----------------|
| <u>Code</u>               | <u>Fee (\$)</u> | <u>Code</u>         | <u>Fee (\$)</u> |  |                 |
| 105                       | 130             | 205                 | 65              | Surcharge - late filing fee or oath  | _____           |
| 127                       | 50              | 227                 | 25              | Surcharge - late provisional filing fee or cover sheet                     | _____           |
| 139                       | 130             | 139                 | 130             | Non-English specification  | _____           |
| 147                       | 2,520           | 147                 | 2,520           | For filing a request for reexamination                                     | _____           |
| 112                       | 920*            | 112                 | 920*            | Requesting publication of SIR prior to Examiner action                     | _____           |
| 113                       | 1,840*          | 113                 | 1,840*          | Requesting publication of SIR after Examiner action                        | _____           |
| 115                       | 110             | 215                 | 55              | Extension for response within first month                                  | _____           |
| 116                       | 390             | 216                 | 195             | Extension for response within second month                                 | _____           |
| 117                       | 890             | 217                 | 445             | Extension for response within third month                                  | _____           |
| 118                       | 1,390           | 218                 | 695             | Extension for response within fourth month                                 | _____           |
| 128                       | 1,890           | 228                 | 945             | Extension for response within fifth month                                  | _____           |
| 119                       | 310             | 219                 | 155             | Notice of Appeal   | _____           |
| 120                       | 310             | 220                 | 155             | Filing a brief in support of an appeal                                     | _____           |
| 121                       | 270             | 221                 | 135             | Request for oral hearing   | _____           |
| 138                       | 1,510           | 138                 | 1,510           | Petition to institute a public use proceeding                              | _____           |
| 140                       | 110             | 240                 | 55              | Petition to revive unavoidably abandoned application                       | _____           |
| 141                       | 1,240           | 241                 | 620             | Petition to revive unintentionally abandoned application                   | _____           |
| 142                       | 1,240           | 242                 | 620             | Utility issue fee (or reissue)   | _____           |
| 143                       | 440             | 243                 | 220             | Design issue fee   | _____           |
| 144                       | 600             | 244                 | 300             | Plant issue fee  | _____           |
| 122                       | 130             | 122                 | 130             | Petitions to the Commissioner  | _____           |
| 123                       | 50              | 123                 | 50              | Petitions related to provisional applications                              | _____           |
| 126                       | 240             | 126                 | 240             | Submission of Information Disclosure Stmt                                  | _____           |
| 581                       | 40              | 581                 | 40              | Recording each patent assignment per property (times number of properties) | <u>40.00</u>    |
| 146                       | 710             | 246                 | 355             | For filing a submission after final rejection (see 37 CFR 1.129(a))        | _____           |
| 149                       | 710             | 249                 | 355             | For each additional invention to be examined (see 37 CFR 1.129(a))         | _____           |
| Other fee (specify) _____ |                 |                     |                 |  | _____           |
| Other fee (specify) _____ |                 |                     |                 |  | _____           |

**SUBTOTAL (3) \$ 40.00**

\*Reduced by Basic Filing Fee Paid

## **SUBMITTED BY:**

Typed or Printed Name: Richard Aron Osman

Signature



Date March 27, 2001

Reg. Number 36,627

Deposit Account User ID \_\_\_\_\_

(complete if applicable)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Shalon et al.

Group Art Unit: 1743

Serial No. Not yet assigned

Examiner: Ludlow, Jan

Filed: Herewith

Attorney Docket No. IN-0012-1

For: *Capillary Printing Systems*

This application claims priority to USSN  
09/150,502, filed September 9, 1998.

TRANSMITTAL

The Commissioner for Patents  
Washington D.C. 20231

Dear Commissioner,

This is a divisional application of pending Serial No. 09/150,502, filed September 9, 1998 and having the same title and inventors. The specification is identical to that of the priority application except that three minor amendments made to the priority Specification on Aug 10, 2000 have been incorporated, as have a new set of claims. This specification contains no new matter.

The pending claims all require the use of a wire bonding capillary for fluid handling; see original claims 21-33 of the priority application. A wire bonding capillary is a definite term of art; see Specification, p.9, lines 9-16. Wire bonding capillaries are well known in the semiconductor manufacturing art, are the subject of numerous publications and patents (see e.g. US Pat Nos. 3,894,671; 4,877,173; 5,082,154; 5,558,270; 5,662,261) and are commercially available from a number of sources (e.g. Micro-Swiss of Kulicke & Soffa Industries, Inc., Willow Grove PA; Gaiser Tool Company, Ventura, CA; Small Precision Tools, Petaluma, CA, etc.). See also the disclosures and claims of US Pat Nos. 6,158,647; 6,065,663; 6,006,977; 5,996,877; 5,971,248; 5,944,249; 5,934,543; 5,927,587; 5,662,261; 5,559,054; 5,031,821; 4,974,767; 4,911,350; 4,513,190; etc.

The Examiner is invited to call the undersigned if she would like to amend the claims to clarify the foregoing or seeks further clarification of the claim language.

Respectfully submitted,  
SCIENCE & TECHNOLOGY LAW GROUP



Richard Aron Osman, Ph.D., #36,627  
Tel(650)343-4341; Fax(650) 343-4342